

PRODUCT DATA SHEET

Sikagard[®]-75 EpoCem[®]

Superfine Epoxy Cement Sealing Mortar and Temporary Moisture Barrier

DESCRIPTION

Sikagard[®]-75 EpoCem[®] is a 3-component epoxy-modified cementitious sealing and levelling mortar, suitable for application to most mineral based substrates. Its specific balanced formulation ensures that the properties of the hydrated cement are both complemented and enhanced by the integral epoxy mortar.

USES

Used on both vertical and horizontal surfaces of concrete, mortar or stone, the thixotropic mortar can be applied as a thin layer coating, 0.5-2 mm thick or as a scraping/levelling mortar to fill in blow holes, shallow honey combing and other surface irregularities. Its ability to provide a temporary moisture barrier provides an ideal substrate for subsequent epoxy coatings.

CHARACTERISTICS / ADVANTAGES

- Waterproof yet permeable to water vapour, allows the substrate to "breathe"
- Excellent adhesion to dry or damp substrates
- Fast and easy to apply to sound prepared substrates
- Solvent free and virtually odourless
- Ideal surface preparation with the minimum of delay for the subsequent application of other appropriate Sika epoxy products
- High abrasion resistance
- Free of chloride
- Similar thermal and elastic properties to concrete
- Good adhesion after long-term water immersion
- Suitable for interior or exterior use

PRODUCT INFORMATION

Packaging	Part A : 1.14 kg plastic bottle Part B : 2.86 kg plastic bottle Part C : 19 kg/ bag
Appearance / Colour	Part A :White liquid Part B :Dark grey liquid Part C :Grey powder Mixed :Thixotropic flowable mortar
Shelf life	6 months from date of production if stored in undamaged and unopened original sealed bag.
Storage conditions	Stored in the original sealed containers within the temperature range of +5°C to +35°C.
Density	2.0 kg/litre approx. (mixed)

TECHNICAL INFORMATION

Tensile adhesion strength	Greater than 1.5 MPa on prepared concrete substrate.
----------------------------------	--

APPLICATION INFORMATION

Mixing ratio	Component A: 1.14 kg. Component B: 2.86 kg. Component C: 18 - 19 (depending on required consistency)		
Consumption	Approximately 2.5 to 3.5 kg/m ² for a thickness of 1.0 to 1.5 mm.		
Layer thickness	Maximum coating thickness: 2 mm		
Substrate temperature	+8°C to +25°C		
Pot Life	10°C 45 mins.	20°C 35 mins.	30°C 25 mins.
* approx. for 23 kg mix (at 75% relative humidity)			
Curing treatment	10°C	20°C	30°C
Ready for over-painting	1 day	18 hours	12 hours
Light loading permitted	3 days	2 days	1 day
Fully cured	14 days	7 days	5 days
*at 75% relative humidity			

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be sound, clean and free from oils, grease or surface contaminants. All loose materials and surface laitance must be removed. For larger areas shot blasting, high pressure water blasting or scabbling is recommended.

On small areas needle gunning or bush hammering can be effective. The tensile strength of the substrate should be at least 1.5 MPa.

Prewetting the substrate is not necessary except on very absorbent substrates and/or when exposure to intense sunlight is probable. There should be no visible or standing water.

MIXING

Shake component A (white liquid) briefly and pour into Component B (plastic container) and shake vigorously for 30 seconds. Pour the mixture (A+B) into a 25 -30 litre pail and add Component C. Mix thoroughly for at least 3 minutes using a low speed electrically driven paddle/stirrer until a smooth homogenous consistency is achieved.

Note that the consistency can be adjusted to suit the particular application by reducing the Component C content by up to 15%.

APPLICATION

Sikagard®-75 EpoCem® can be applied by steel trowel, spatula etc., to the prepared dry or damp substrate. Work the material well into the substrate to ensure complete filling of voids etc., and intimate surface contact.

Following initial set a fine surface finish can be achieved by finishing with a damp sponge or suitable brush.

A fine gripping surface finish is recommended for subsequent epoxy coatings.

CLEANING OF EQUIPMENT

Clean all tools with water immediately after use. Once cured, Sikagard®-75 EpoCem® can only be removed mechanically.

IMPORTANT CONSIDERATIONS

- On no account should water be added to the mix
- Curing: Sikagard®-75 EpoCem® is insensitive to wind during curing, but substrates should be primed with EpoCem Module (Parts A + B) before application if very absorbent or if exposure to intense sun light is probable. The material can be exposed to extreme weather conditions-rain, cold etc. after 6 hours following correct application.
- Sikagard®-75 EpoCem® should not be used to bridge "live" cracks, joints etc.
- Sikagard®-75 EpoCem® is overpaintable with solvent free and low solvent containing products after the curing times given. A more extended curing period is necessary with high solvent products. Consult our Technical Department

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are

based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

Sika (Thailand) Limited

700/37 Moo 5 Amata City Chonburi
Industrial Estate, T. Klong Tamhru
A. Muang, Chonburi 20000, Thailand
Tel : +66 3810 9500
E-mail : sikathai@th.sika.com
Website: tha.sika.com



Product Data Sheet

Sikagard®-75 EpoCem®

February 2020, Version 01.03
020302050070000002

Sikagard-75EpoCem-en-TH-(02-2020)-1-3.pdf